MINING DEPARTMENT.

MAN EHRENBERG, ONE OF THE

ing of the second world.

SHAFTS GOING DOWN.

are very flattering. The next in point pth is the new shaft of the Imp rial and Companies, which has now attained er compartments will be raised from instead of bei g sunk from the top. sting and pumping machinery are the afts above mentioned will be at least et deep this fall. The Chollar-Po ing in the west wall of the ledge. GOLD MINING IN NEW MEXICO.

It would seem there is no limit to the vast An improved method of fixing and unfixing mining territory upon this coast. In a late the tubes of steam boilers has been provision-

tof the "Gould & Curry" Company, on rect, is now about 750 feet deep, the afternion and capital of New age of it deeper being recommenced a Mexico, and to this cause is to be attributed. ng of it deeper being recommenced a Mexico, and to this cause is to be attributed ago last Monday, after a cessation of the indifference which has been exhibited THE GREAT CENTRAL COPPER MINE, y a year. Three shifts of men-six men toward these mining resources. The projectshift—are pushing forward, or rather ed route of the Atlantic and Pacific Railroad ward, the work with great energy, and lies within the shadow of the Placer Mounll not be long before the shaft will be feet deep. The hoisting and numbing of the most pass along the very base of which has been shipping ore to this city for feet deep. The hoisting and pumping Grande, it must pass along the very base of which has been shipping ore to this city for teet deep. The hoisting and pumping Grande, it must pass along the very base of some time past. It is thought by some to be nery is of sufficient capacity to allow of this very rich premontory, which stands mid- on the same vein with the Planet; but the g to the depth of 1,569 feet, or more, way between Santa Fe and Alb querque, supposition has not yet been demonstrated. Valette of Jan. 19th has the annexed in relaifth level of the mine is now being Without doubt the mountain will become a The mine is owned chiefly by San Francisco tion to these mines; " Mossess. Crippen and I, and the future prospects of the Com- grand depot for that continental highway, ca. capitalists, and is under the superintendence Raymond strived on Thursday from the Pahpuble as it is for supplying wood, coal and of Mr. William Thompson. Work was com- ranagat mines, where the former has been for metals of almost all descriptions. Complete menced upon it about three years ago, and the testing of cres. The latter as the pth of 740 feer, and is being rapidly the road, and instead of a single ten stamp in companies of the unsettled state of the representative of eastern capitalists, has in oper. The present machinery will mill we shall have orders for a thousand; country, and the difficulties of transportation vested largely. Mr. Ely accompanied the it to the depth of nearly or quite 1,000 while two thousand ounces of dust per month between this city and the Colorado. These the party, he having sold out his interest for The Curtis shaft of the Savage Com- will take the place of the sum now mentioned. difficulties, however, having now been meas- \$55,000, and will at once proceed East. The on E street, is now about 450 feet deep, Farther west—on the same range—probably commenced, which have already resulted in of the richness of the precious ores which been discontinued for a year. The six or ten miles distant-other lodes have most important developments. of the compartments are being sunk at been discovered within a short time past that , and when at a convenient depth, the give evidence of even greater richness.

werful for the purpose in the State, Lulependent gives the following account of a a few days since, which has been sold for fif- is not so sanguine, his operations not being so recent invention: "E. R. Chapin, of Sonora, teen cents per pound-\$300 per ton. The successful as the others, but it was in conse se power, and every portion of the has recently invented a very ingenious conlittle over \$100 per ton. The company has tions, he having not been engaged in the purery being of a correspondingly power trivance for saving gold lost from quartz mills, two more shipments on the way, both of sait of mining. There is sufficient evidence, the most perfect manner, so smooth and which he terms a concentrator and sep which amount to about thirty thousand however, that next spring there will be an ently that it can scarcely be heard arator. The model which be has determined pounds. Regular shipments will be made extensive emigration to Pahranagat, and the years. en standing near it. Either of the to send on to Washington, in hopes of get- hereafter. ting out a patent for his invention, could easithe shaft is 700 feet deep, but is not be. It is also 700 feet deep and after or concentrator that we have seen used ates, very little or no ison or sulphur being present; hence the company is able to turn out at one smelting a very good article of copper. Some of this copper has been used g sunk deeper. The Ophir-Mexican by quartz miners. A shallow pan, called the by the brass foundries of this city, who to be as much waste in washing quartz in about 620 feet deep, and sinking is separator, elevated an inch above the concenlinued for the present in order to open trator, elevated an inch above the concen-is level, 60 feet below the ninth or low-trator, first receives the water, sediment, from the formers. Within less than two del of the mine. A drift or gangway quick-silver and gold escaping from the mill months they will have a larger formace in being opened for that purpose, runast towards the ledge through the bardad of blasting rock, the bottom of the
being in the west wall of the ledge.

The bottom of the seperator being operation, which they think will be able to peration, which they think will be able to peration, which they think will be able to gold washings, belonging to thre companies, and obtained from them gold at the rate of the company own two parallel ledges of the refuse sulphurets of the took samples of the took samples of the took samples of the refuse sulphurets of the took samples of the refuse sulphurets of the took samples of the took samp it, as well as that of the Hale & Nor naturally settles down, while the light sand 3 000 feet each. Only one ledge has as yet supany, is not in the right place. and sulphurets flow over with the water into been developed to any considerable extent, per ton. panies should remove their works the concentrator, which looks somewhat like Upon this an incline has been sunk to the same as the Gould & Curry, Sav- the shallow top of a soup tureen. Small depth of one hundred feet, at which point Chollar Potosi Companies have done, to conform to the dip of the lode to holes are perforated in the bottom of this ing in. At the depth of about fifty feet drifts , as well as to take advantage of the concentrator, through which the sulphurets have been run each way from the shaft about by, for in-tance, gain 200 feet, the top thing eise flows over the top into conductors wine varying from five to seven feet thick. The shaft is also connected with the surface brugs and Medicines in the town of Prescott, by the level of the croppings of the w the level of the croppings of the is suspended on four stout wires, each fast- by a tunnel, throug which the ore will be A. T. is this day dissolved by mutual consent. With such deep shafts going down, ened at the bottom in a strong framework, token out. The outcrop of the vein has been view of the large bodies of rich ore Diminutive cog wheels attached to a cylin-stripped quite a distance, developing good

dle when rocked gently.

BOILER TUBES.

of in the German mines. Then he emi- ago, mining operations have been confined to usual way. It will at once be seen that the produced in the metallic bath. The supernad to the Pacific coast, since which time very limited dimensions; the old shafts have holes in the tube plate at the smoke box end tant scoria is removed by the aid of a suitaspent probably not more than two sourcely been visited; and with the exception will be 1 8 inch larger than at the fire box ble instrument, and air admitted without den what may be called civilized life. He now and then, of an enterprising searcher and. Thus the those entering from the smoke lay into the interior of the metallic bath. Afse, been an explirer among the guiches, when a rain occurs, for a box end will pass through a hole 1.8 larger ter numerous experiments, on a comparativethe wilderness, for the nagret, or the pulverization of a cart lead of than itself, until the last inch or so; then it ly large scale, it has been found that the acof an unknown posterity. The tem stone by the most primitive processes, to ob- will enter the two plates tightly, and a blow tion of steam, as previously employed, in conus weather of life ended in rold air, tain a peansworth or two, the whole place or two of the hummer will set it up to its currence with air, is entirely useless, as the sad picture to the living, and weights has until recently shown a total abandon- place. It may be argued that this arrange- inflation or injection of air into the bath,

This mine is located on Williams' Fork, 9 the size removed immediately, on which the The best now in use in this State. menced upon it about three years ago, but

posal, the company have two small furnaces shipped by the way of Austin and San Franrunning, turning out copper from 91 to 96 cisco. These gentlemen say that the results per cent, fine, which is being shipped to this far exceed their most sanguine expectations. New Mixing Investion -The Stockton city. A large lot of this copper was received On the other side, we learn that Dr. Conger

The ores of this mine are oxids and carbon ates, very little or no icon or sulphur being ent \$18,000 of the precious metal per month.

The company own two parallel ledges of of late in the Hale & Norcross and the der, which is kept in motion by the action of the may well feel encouraged over the mill above, sets the machine in motion, and gives both the separator and concentrate the prospects of the Comstock ledge, and gives both the separator and concentrate the sight, which will average a who will continue the business at the old insequently of Virginia and of our sill to the same motion as that of a child's crassiance.

All persons indebted to the above firm are one all the way. The superintendent estimates that he has fully five thousand tons of requested to call and settle with E. Darling, ore opened to sight, which will average a who will continue the business at the old insequently of Virginia and of our sill the way. The superintendent estimates that he has fully five thousand tons of requested to call and settle with E. Darling.

E. DARLING.

E. DARLING.

Prescott, A. T. Feb. 27, 1867.

MAKING COPPER DIRECT FROM THE SAN FRANCISCO ADVERTISEMENTS

Dr. F. Le Clere of Paris, has recently pat-St. Louis paper we find the following account ally specified by Mr. D. McDowell, of Kings. ented a process by which copper ores are bronce the untimely death of Mr. Ehrenberg of the re-opening and successful working of ton, Jamaica. It is a well known fact that ken into pieces, and roasted in a reverberaave published several accounts of him mines in New Mexico; "A gentleman con- many accidents occur to boilers in consectory furnace, and when they attain a red favorite citizen pioneer miner and man nected with the Placer Mining Company of quence of the tubes being allowed to re- heat, water is made to fall upon it like rain. ence in our Territory. A late Southern New Mexica-Dr. M. Steck, formerly Indian main too long without being taken out and When the white vapours disengage, the heat gives some facts and incidents in the Superintendent of that Territory, arrived in cleaned, and the interior of the boiler proper- is increased so as to effect the fusion of the Mr. Ehrenberg which we have not be St. Louis on Friday last, with a considerable by examined, and if need be, repaired. It is mass, after which it is run off, a matt of a oticed, and from which we are informed amount of the precious dust. His object for generally admitted that the great reason they very white color being obtained. Secondly, at the age of sixteen he left his visiting the city, on his way Eastward, was are allowed to remain so long is owing to the the white matt is broken in pieces, and roastin Germany for the purpose of aiding in principally to engage the skill of our artisans expense incurred by their removal and replaced in a reverberatory furnace, in presence of Is a GOOD FAMILY HOTEL containing two nex ng the independence of Texas; and the in futuishing the necessary machinery for cing. It is frequently the case that tubes a large amount of air. The heat is first slowlous story of his escape from the mur- mining, and he accordingly left an order for a which are very little the worse, and would ly applied in order to prevent the fusion of s of Colonel Fannin and his companions ten stamp mill, with the requisite accompa- have lasted several years longer have been the mass, and immediately a red hear is obto the letter, except in the fact of his niments. The quartz of the Placer Mountain entirely or almost destroyed by taking them tained he projects water in the form of a fine the only survivor of the party, over turns out, it seems, some three hundred doi- out, and in many instances the tubes are al- rain on the mineral mass, care being taken to who had surrendered, and in wolation of lars per cord-an amount above the average lowed to remain until the steaming qualities well stir and subdivide it with a stirrer, in rms, of surrender, were taken out in of what may be rated first class paying lodes. of the boiler are entirely destroyed, rather order that the water shall act on the greatest divisions and shot down in cold blood. With a small five stamp instrument Dr. Steck than incur the expense of replacing them. By number of points. Immediately copper aporder was given and carried out by Gen. extracted two hundred ounces in the short the proposed arrangement these evils will be pears in a metallic state the above roasting Corner in 1826. But Yoakum's history of space of a couple of months. The Placer removed. In the first place, the tubes can process is repeated, until the larger pieces of says there were some twenty-seven Mountain is within thirty or thirty-five miles be fitted in their places in less than one quarmatts have become transformed into metallic escaped, and Mr. Ehrenberg's name apoof Santa Re ; but through the medium of the ter of the time generally taken for such pur- copper which is rapidly effected. The addimong the number. There is a gentle- clear and pure atmosphere of that region it pose. In the next place, they can be made tion of from only two per cent of coal in pown San Francisco, a very prominent iron seems almost to overhang the western suburt. to fit both tube plates perfectly tight, so that der to the mass, while at a red heat, facilitr, then a boy like Ehrenberg, who was of the quaint old Spanish town. Indeed, with there will be no danger of cracking or burst- ates the roasting, although it is not absolutemember of that ill-fated company, and a brilliant sunset-and the weather there is ing the ends in drifting them, which is very ly necessary. The condition of the ingredimade his escape the night before the unclouded for months together one can hard often the case when tubes do not fit tightly ents may be ascertained by withdrawing some quarters and home for the Californian business. cre. They first met afterwards in San by believe that a space exceeding a league at in the tube plate. The greatest benefit of all of the large pieces from the furnace and breakisco, and the inten-ity of feeling mani- farthest intervenes between the city and the will be the facility with which the tubes can ing them. The roasting should be continued by any. Board, three dollars per day.

LEWIS LELAND & CO., is well remembered by parties present. golden Sierra. The mines of this mountain be taken out when required, cleand, and put until these pieces indicate the presence of was in 1859, thirteen years subsequent have been worked for over a bundred and fif. back again. In carrying out this invention copper in a metallic state, at which time the terrible affair before mentioned. Their ty years. Its wealth was known to the ear one end of the tube (the end next to the heat is increased, so as to effect the fusion of ng was like two brothers who had sup- liest pioneers the San Francisco Monks smoke box) is to be enlarged 1-8th of an inch the mass, and a mixture is added of the powand even before their advent, the natives of in diameter more than the rest of the tube, dered charcoal, or cork, lime or other calerter this event in Texas, Mr. Elevenberg the country supplied themselves with orna. the enlergement to extend about 1 1-2 inch our matter, after which the whole is agitated sed to Germany and completed his edu ments from its rich resources. Since the ac. from the end, which will be enough to allow and mixed as completely as possible. Third-MACHINERY OF ALL KINDS. at Frieburg, and was for several years tession of the Territory, about twenty years a mandril to be applied to drift it up in the ly, a considerable chemical action will now be arth's sphere. 'Tis like a melting bell of the small steeple, which continues from time have kept alive the traditions of the spaces. It is to be the state of the spaces between the toler 18 inch to the spaces of the spaces. It is to be toler 18 inch tol arning steeple, which continues from time have kept alive the traditions of the spaces between the tubes 1.8 inch less than tube of refractory clay. The enormous chemwealth concealed within the mountain, and the other, but such will not be the case, as ical action produced by the injection of air Enrenberg's death adds another to the efforts were made five or six years since to the plate at the smoke box end is not exposed into the metallic bath generally exceeds the sacrifices that have been made for the establish a company for the re-opening of the to the direct action of the fire, as is the plate degree of ox lation required, for which reaopment of Arizona. The list is a long old works and realizing the treasures they at the fire box end, therefore there is no ne- son recourse bould be had finally to charcoal and contains the names of many valuable contain. The present association is the re- cessity for its being of the same strength; but and wood poies for stirring. The copper is enterprising spirits, who have passed the sult of those efforts. Geologists and practic. sulmitting that it does weaken it, it will be tested from time to time, until the metal asgulf between earth life and the glorious al experts in gold mining have given the opin- easy to add as much to the thickness of the somes a real tint, and the silky appearance er land of immortality, and whose spir- ion without a dissenting voice, be believe, plate as would give it the same sectional area and malicability desired, after which the braught we know, are still surrounding us that the Placer is as rich in golden ores as as the other. The inventor considers I-8 inch melted metal is run into suitable apparatus, Manufacture witnessing our sufferings and trials any mountain on the Pacific slope or all ng enlargement is enough for the largest tube, so arranged as not to permit of the action of ig to welcome the weary to the spring the backbone range of the central portion of and not too much for the smallest, as that air on the metal in fusion, and having only the continent. It is a magnificent pile, covered will allow of the tube being incrusted to the one opening for the introduction of the meter of 1 16th of an inch on the surface (1.8 inch on the diameter,) which is quite as much al. In this manuer copper may be produced Sole agents for this coast of the celebrated "Tyler and abounds besides with lead and iron oves as should be allowed to accumulate on any not only of commercial value, but suitable for Water Wheel, of which there are now apwards of the purest character, and with coal that tube before it is taken out, especially where rolling direct from the ore. In these cases it Commission for the Coast

> THE PAURANAGAT MINES. - The Salt Lake urably removed, active operations have been specimens be takes with him bear indications abound in those regions. The bulk of the According to the report placed at our distore destined for the eastern market, has been

> > WASTE IN GOLD MINING.—There appears of the London Mining Journal states that COMMISSION MERCHANTS, while on a recent visit to Clunes, Australia, and obtained from them gold at the rate of Groceries 28 oz. 6 dwt., 29 oz. 9 dwt., and 30 ounces

nines throughout Utah. The Buel mill at

Hot Creek is said to be turning out at pres-

Dissolution Notice.

The co-partnership heretofore existing be-E. CLUTTER,

E. DARLING. Prescott, A. T. Feb. 27, 1867.

SANSOME STREET,

Corner of HALLECK, SAN FRANCISCO

"THE EXCHANGE"

DEED FIRELY FURNISHED ROOMS, extending from Halleck to Sacramento streets, and is FIRE PROOF. Ladies' Entrance—Corner Sansone and Halleck treets. Prices low to suit the times to suit the times T. SARGENT, Proprietor,

SAN FRANCISCO.

This house possesses all the requirements of a first-class hotel, its spacious reading room, with a large mineral cabinet, and extensive collections of specimens from the different mining regions of the Pacific coast—Branch Telegraph Office conneeting with lines throughout the country and news stand-all contributing to make it the head-

Proprietors.

CUSHING.

description. Being a Practical Machinist, and giving my personal attention to the execution of orders, I can guarantee the best class of work at the lowest prices in the city. Having completed arrangements with Horacs McMurtrie & Co., 32 Kilby Street Boston and houses in New York, I am prepared to furnish Machinist's Tools of ex-ters description. Coston and Woodlen Mill. Ma

SAN FRANCISCO,

QUARTZ MILL, SAW MILL,

Flour mill, and amalgamating machin-ery of all kinds,

two to ten per cent, of pure metal; but when the state of pure comparts of greater purity the metal is obtained in a single operation; for this l'acking from purities using the same in this

this purpose, the raw ore is first melted, and city and Sacran

be same free of expense.

By strict attention to business we hope to merit the San Francisco, September 13 and 25, and October

patronage of the public, and shall always endeavor to be prompt and give estisfaction to our customers Hanscom & Co.

SAN FRANCISCO

REMOVED TO

Vulcan Iron Works, Fremont St., Bet. Mission and Howard, San Frencisco.

SCREEN PUNCHING in all its branches. SCREKNS will save two hundred per cent. Guaranteed to be the best and cheapest in use on the Pacific Coast, and will not rip or tear.

Orders solicited and promptly attended to. N. B .- J. W. Quick is the only competent and successful manufacturer of screens on this coast, having made screens for the principal mills for

GEO. F. HOOPER & CO.,

san Francisco and Fort Yuma, California, an Maricopa Wells, Arizona.

And general dealers in

and Provisions, LIQUORS, DRY GOODS,

BOOTS AND SHOES, CLOTHING,

Hardware,

LA PAZ ADVERTISEMENTS.

GRAY & CO., LA PAZ and PRESCOTT, ARIZON ',

Merchants.

July 1, 1864.

LA PAZ, MOHAVE, PRESCOTT CASH STORE.

The undersigned wishes to inform the public that

in a few days he will receive by the schooner Tus-bando a large stock of goods, comprising a large stock of Groceries, Clothing, Boots and Shoe

A fine assortment of Wines and Liquors,

Chewing and Smoking Tobacco, Havana Cigara, Cigarito Paper

Dried Fruite,

120,000 lbs. Barley 1.000 sacks of Flour, 200 Sacks of Beans.

A lot of Potatoes and Onions,

20,000 feet of Assorted Lumber, Windows and

The Table of this House shall not be excelled Which he intends to keep constantly on hand at La any. Board, three dollars per day.

LOWEST POSSIBLE FIGURES FOR CASH

MANUEL RAVENA.

P.S.—Soon after January 1 I will also have a complete stock of goods in Prescott, at the store ormerly occupied by Jacob-Elias. 1947 M. R.

LOS ANGELES ADVERTISEMENTS.

Caswell & Ellis, WHOLESALE AND RETAIL DEALERS IN

STAPLE & FANCY DRY GOODS

GROCERIES, PROVISIONS, AND GENERAL MERCHANDIZE.

AGENTS FOR CALIFORNIA POWDER WORKS CO.

No. 1, Arcadia Block, Los Angeles Street,

TOMLINSON &CO.

FORWARDING AND COMMISSION

MERCHANTS. LOS ANGELES AND SAN PEDRO.

STEAM COMMUNICATION

San Francisco, San Diego and San Pedro.

The California Steam Navigation Company's

Pacific,

CHARLES THORNE, Commander, Will make regular trips, leaving as follows:

6, 18 and 30.
San Diego, October 9 and November 8.
San Pedro September 16 and 25, October 11 and 21, and November 4.



On and fter Monday, September 10th, the stages of the undersigned, carrying the United States and Quartermaster's mail, will leave the Exchange, at Wilmington. California, for Fort Yuma, at 4 Clock every Monday passing through Los Angeles and San Ber-

Arriving at Fort Young the following Friday. Returning, leaves Fort Yuma the follow-Sunday at 6 o'clock a. m. LETTERS, PACKAGES, ETC., Forwarded on

The Overland Stage from San Francisco, leaves Los Angeles every day; the Steamer Pacific leaves Wilmington three times each month. The stage from San Diego to Los Angeles leaves

only once a week, and the steamer once a month

Persons interested in Arizona mines can have all kinds of Machinery repaired at this

Wagon Making, Blacksmithing,

Turning in Wood

IRON

PROMPTLY EXECUTED.

All work done in this establishment AND GENERAL MERCHANDIZE. is warranted, and our advantages are such that we can execute work with dispatch.

BANNING & CO.

Wilmington, Dec. 1866.